mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

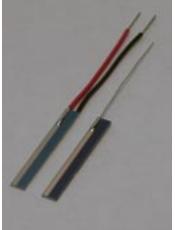


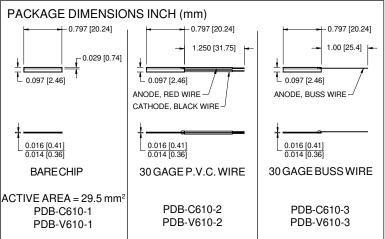
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PHOTONIC Silicon Photodiode, Blue Enhanced Solderable Chips Photoconductive Type PDB-C610 Photovoltaic Type PDB-V610 DETECTORS INC.





FEATURES

- Blue enhanced
- Photovoltaic type

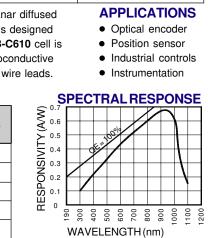
DESCRIPTION: Low cost blue enhanced planar diffused silicon solderable photdiode. The PDB-V610 cell is designed for low noise, photovoltaic applications. The PDB-C610 cell is designed for low capacitance, high speed, photoconductive

 Photoconductive type • High quantum efficiency operation. They are available bare, PVC or buss wire leads.

ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)

SYMBOL	PARAMETER .	PDB-C610		PDB-	V610	UNITS
		MIN	MAX	MIN	MAX	onino
VBR	Reverse Voltage		75		25	V
T _{stg}	Storage Temperature	-40	+125	-40	+125	°C
To	Operating Temperature Range	-40	+100	-40	+100	°C
Ts	Soldering Temperature		+224		+224	°C
Ι	Light Current		500		500	mA

APPLICATIONS



ELECTRO-OPTICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

SYMBOL	CHARACTERISTIC	TESTCONDITIONS	PDB-C610			PDB-V610			
			MIN	TYP	MAX	MIN	TYP	MAX	UNITS
lsc	Short Circuit Current	H = 100 fc, 2850 K	325	365		325	365		μ A
١D	Dark Current	H = 0, V _R = 5 V*		20	40		20	40	nA
Rsн	Shunt Resistance	H = 0, V _R = 10 mV	6	12		10	25		MΩ
TC RsH	Rsн Temp. Coefficient	H = 0, V _R = 10 mV		-8			-8		%/°C
CJ	Junction Capacitance	H = 0, V _R = 5 V**		200			5000		pF
λrange	Spectral Application Range	Spot Scan	350		1100	350		1100	nm
λρ	Spectral Response - Peak	Spot Scan		940			940		nm
VBR	Breakdown Voltage	I = 10 μA	25	50		5	15		V
NEP	Noise Equivalent Power	V _R = 0 V @ Peak	4.5 x 10 ⁻¹³ TYP		1.2 x 10 ⁻¹³ TYP			W/ \sqrt{Hz}	
tr	Response Time	$RL = 1 K\Omega V_R = 5 V^{**}$		26			1200		nS

*VR = 100 mV on Photovoltaic type **VR = 0 V on Photovoltaic type

Information in this technical data sheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice. [FORM NO. 100-PDB-C610-V610 REV A]